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level to a higher temperature level for the purpose of heating water, including all ancillary equipment such as fans, storage tanks, pumps, or controls necessary for the device to perform its function.

Water use means the quantity of water flowing through a showerhead, faucet, water closet, or urinal at point of use, determined in accordance with test procedures under appendices S and T of subpart B of this part.

Weatherized warm air furnace or boiler means a furnace or boiler designed for installation outdoors, approved for resistance to wind, rain, and snow, and supplied with its own venting system.

[42 FR 27898, June 1, 1977]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 430.2, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.fdsys.gov.

§ 430.3 Materials incorporated by reference.

(a) *General.* We incorporate by reference the following standards into part 430. The material listed has been approved for incorporation by reference by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to a standard by the standard-setting organization will not affect the DOE regulations unless and until amended by DOE. Material is incorporated as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. Also, this material is available for inspection at U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies Program, 6th Floor, 950 L'Enfant Plaza, SW., Washington, DC 20024, (202) 586-2945, or go to: http://www1.eere.energy.gov/buildings/appliance_standards/. Standards can be obtained from the sources below.

(b) *AHRI.* Air-Conditioning, Heating, and Refrigeration Institute, 2111 Wilson Blvd, Suite 500, Arlington, VA 22201, 703-524-8800, or go to <http://www.ahrinet.org>.

(1) ARI 210/240-2006, Unitary Air-Conditioning and Air-Source Heat Pump Equipment, approved March 26, 1998, IBR approved for appendix M to subpart B.

(2) [Reserved]

(c) *AATCC.* American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709, (919) 549-3526, or go to www.aatcc.org.

(1) AATCC Test Method 79-2010, Absorbency of Textiles, Revised 2010, IBR approved for Appendix J2 to Subpart B.

(2) AATCC Test Method 118-2007, Oil Repellency: Hydrocarbon Resistance Test, Revised 2007, IBR approved for Appendix J2 to Subpart B.

(3) AATCC Test Method 135-2010, Dimensional Changes of Fabrics after Home Laundering, Revised 2010, IBR approved for Appendix J2 to Subpart B.

(d) *ANSI.* American National Standards Institute, 25 W. 43rd Street, 4th Floor, New York, NY 10036, 212-642-4900, or go to <http://www.ansi.org>.

(1) ANSI C78.3-1991 (“ANSI C78.3”), American National Standard for Fluorescent Lamps-Instant-start and Cold-Cathode Types-Dimensional and Electrical Characteristics, approved July 15, 1991; IBR approved for § 430.32.

(2) ANSI C78.20-2003, Revision of ANSI C78.20-1995 (“ANSI C78.20”), American National Standard for electric lamps—A, G, PS, and Similar Shapes with E26 Medium Screw Bases, approved October 30, 2003; IBR approved for § 430.2.

(3) ANSI C78.21-1989, American National Standard for Electric Lamps—PAR and R Shapes, approved March 3, 1989, IBR approved for § 430.2.

(4) ANSI C78.21-2003, Revision of ANSI C78.21-1995 with all supplements, American National Standard for Electric Lamps—PAR and R Shapes, approved October 30, 2003, IBR approved for § 430.2.

(5) ANSI ANSLG C78.81-2010, (“ANSI C78.81”), American National Standard for Electric Lamps—Double-Capped Fluorescent Lamps— Dimensional and Electrical Characteristics, approved

January 14, 2010, IBR approved for § 430.2, § 430.32, appendix Q, appendix Q1, and appendix R to subpart B.

(6) ANSI C78.375-1997, Revision of ANSI C78.375-1991 (“ANSI C78.375”), American National Standard for Fluorescent Lamps—Guide for Electrical Measurements, first edition, approved September 25, 1997; IBR approved for appendix Q, appendix Q1 and appendix R to subpart B.

(7) ANSI IEC C78.901-2005, Revision of ANSI C78.901-2001 (“ANSI C78.901”), American National Standard for Electric Lamps—Single-Based Fluorescent Lamps—Dimensional and Electrical Characteristics, approved March 23, 2005; IBR approved for § 430.2 and appendix R to subpart B.

(8) ANSI C79.1-1994, American National Standard for Nomenclature for Glass Bulbs—Intended for Use with Electric Lamps, approved March 24, 1994, IBR approved for § 430.2.

(9) ANSI C79.1-2002, American National Standard for Electric Lamps—Nomenclature for Glass Bulbs Intended for Use with Electric Lamps, approved September 16, 2002, IBR approved for § 430.2.

(10) ANSI ANSLG C81.61-2006, Revision of ANSI C81.61-2005, (“ANSI C81.61”), American National Standard for electrical lamp bases—Specifications for Bases (Caps) for Electric Lamps, approved August 25, 2006, IBR approved for § 430.2.

(11) ANSI C82.1-2004, (“ANSI C82.1”), American National Standard for Lamp Ballast—Line Frequency Fluorescent Lamp Ballast, approved November 19, 2004; IBR approved for appendix Q and appendix Q1 to subpart B.

(12) ANSI C82.2-2002, (“ANSI C82.2”), American National Standard for Lamp Ballasts—Method of Measurement of Fluorescent Ballasts, Approved June 6, 2002, IBR approved for appendix Q and appendix Q1 to subpart B.

(13) ANSI C82.3-2002, Revision of ANSI C82.3-1983 (R 1995) (“ANSI C82.3”), American National Standard for Reference Ballasts for Fluorescent Lamps, approved September 4, 2002; IBR approved for appendix Q, appendix Q1 and appendix R to subpart B.

(14) ANSI C82.11 Consolidated-2002, (“ANSI C82.11”), American National Standard for Lamp Ballasts—High-fre-

quency Fluorescent Lamp Ballasts—Supplements, approved March 11, 1999, August 5, 1999 and January 17, 2002; IBR approved for appendix Q and appendix Q1 to subpart B.

(15) ANSI C82.13-2002 (“ANSI C82.13”), American National Standard for Lamp Ballasts—Definitions for Fluorescent Lamps and Ballasts, approved July 23, 2002; IBR approved for appendix Q and appendix Q1 to subpart B.

(16) ANSI Z21.56-1994, Gas-Fired Pool Heaters, section 2.9, approved December 5, 1994, IBR approved for appendix P to subpart B.

(17) ANSI Z21.50-2007 (CSA 2.22-2007), (“ANSI Z21.50”), Vented Gas Fireplaces, Fifth Edition, Approved February 22, 2007, IBR approved for § 430.2.

(18) ANSI Z21.88-2009 (CSA 2.33-2009), (“ANSI Z21.88”), Vented Gas Fireplace Heaters, Fifth Edition, Approved March 26, 2009, IBR approved for § 430.2.

(e) [Reserved]

(f) *ASHRAE*. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Publication Sales, 1791 Tullie Circle, NE., Atlanta, GA 30329, 800-527-4723 or 404-636-8400, or go to <http://www.ashrae.org>.

(1) ANSI/ASHRAE Standard 16-1983 (“ANSI/ASHRAE 16”) (RA 2009), (Reaffirmation of ANSI/ASHRAE Standard 16-1983 [RA 1999]), Method of Testing for Rating Room Air Conditioners and Packaged Terminal Air Conditioners, ASHRAE approved October 18, 1988, and reaffirmed June 20, 2009, ANSI approved October 20, 1998 and reaffirmed June 25, 2009, IBR approved for appendix F to subpart B.

(2) ASHRAE 23-2005, Methods of Testing for Rating Positive Displacement Refrigerant Compressors and Condensing Units, approved February 10, 2005, IBR approved for appendix M to subpart B.

(3) ASHRAE 37-2005, Methods of Testing for Rating Unitary Air-Conditioning and Heat Pump Equipment, approved March 11, 2005, IBR approved for appendix M to subpart B.

(4) ASHRAE 41.1-1986 (Reaffirmed 2001), Standard Method for Temperature Measurement, approved February 18, 1987, IBR approved for appendix E and appendix M to subpart B.

(5) ASHRAE 41.2-1987 (Reaffirmed 1992), Standard Methods for Laboratory

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Airflow Measurement, approved October 1, 1987, IBR approved for appendix M to subpart B.

(6) ASHRAE 41.6-1994 (Reaffirmed 2001), Standard Method for Measurement of Moist Air Properties, approved August 30, 1994, IBR approved for appendix M to subpart B.

(7) ASHRAE 41.9-2000, Calorimeter Test Methods for Mass Flow Measurements of Volatile Refrigerants, approved October 6, 2000, IBR approved for appendix M to subpart B.

(8) ASHRAE/AMCA 51-1999/210-1999, Laboratory Methods of Testing Fans for Aerodynamic Performance Rating, approved December 2, 1999, IBR approved for appendix M to subpart B.

(9) ASHRAE 103-1993, Methods of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers, (with Errata of October 24, 1996) except for sections 3.0, 7.2.2.5, 8.6.1.1, 9.1.2.2, 9.5.1.1, 9.5.1.2.1, 9.5.1.2.2, 9.5.2.1, 9.7.1, 10.0, 11.2.12, 11.3.12, 11.4.12, 11.5.12 and appendices B and C, approved October 4, 1993, IBR approved for § 430.23 and appendix N to subpart B.

(10) ASHRAE 116-1995 (RA 2005), Methods of Testing for Rating Seasonal Efficiency of Unitary Air Conditioners and Heat Pumps, approved July 24, 1995, IBR approved for appendix M to subpart B.

(g) ASME. American Society of Mechanical Engineers, Service Center, 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007, 973-882-1170, or go to <http://www.asme.org>.

(1) ASME/ANSI A112.18.1M-1996, Plumbing Fixture Fittings, approved April 4, 1996, IBR approved for appendix S to subpart B.

(2) ASME/ANSI A112.19.6-1995, Hydraulic Requirements for Water Closets and Urinals, approved April 6, 1995, IBR approved for § 430.2 and appendix T to subpart B.

(h) AHAM. Association of Home Appliance Manufacturers, 1111 19th Street, NW., Suite 402, Washington, DC 20036, 202-872-5955, or go to <http://www.aham.org>.

(1) ANSI/AHAM DH-1-2008 (“ANSI/AHAM DH-1”), *Dehumidifiers*, ANSI approved May 9, 2008, IBR approved for appendix X1 to subpart B.

(2) ANSI/AHAM DW-1-1992, American National Standard, Household Electric

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Dishwashers, approved February 6, 1992, IBR approved for appendix C to subpart B and § 430.32.

(3) ANSI/AHAM DW-1-2010, *Household Electric Dishwashers*, (ANSI approved September 18, 2010), IBR approved for appendix C1 to subpart B.

(4) AHAM HLD-1-2009 (“AHAM HLD-1”), Household Tumble Type Clothes Dryers, (2009), IBR approved for appendix D1 to subpart B.

(5) ANSI/AHAM HRF-1-1979, (Revision of ANSI B38.1-1970), (“HRF-1-1979”), *American National Standard, Household Refrigerators, Combination Refrigerator-Freezers and Household Freezers*, approved May 17, 1979, IBR approved for appendices A1 and B1 to subpart B.

(6) AHAM HRF-1-2008, (“HRF-1-2008”), Association of Home Appliance Manufacturers, Energy and Internal Volume of Refrigerating Appliances (2008), including Errata to Energy and Internal Volume of Refrigerating Appliances, Correction Sheet issued November 17, 2009, IBR approved for appendices A and B to subpart B.

(7) ANSI/AHAM RAC-1-2008 (“ANSI/AHAM RAC-1”), Room Air Conditioners, (2008; ANSI approved July 7, 2008), IBR approved for appendix F to subpart B.

(i) CEC. California Energy Commission, 1516 Ninth Street, MS-25, Sacramento, CA 95814, 916-654-4091, or go to <http://www.energy.ca.gov>.

(1) CEC Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies, August 11, 2004, IBR approved for appendix Z to subpart B.

(2) [Reserved]

(j) CIE. Commission Internationale de l’Eclairage (CIE), Central Bureau, Kegelgasse 27, A-1030, Vienna, Austria, 011+43 1 714 31 87 0, or go to <http://www.cie.co.at>.

(1) CIE 13.3-1995 (“CIE 13.3”), Technical Report: Method of Measuring and Specifying Colour Rendering Properties of Light Sources, 1995, ISBN 3 900 734 57 7; IBR approved for § 430.2 and appendix R to subpart B.

(2) CIE 15:2004 (“CIE 15”), Technical Report: Colorimetry, 3rd edition, 2004, ISBN 978 3 901906 33 6; IBR approved for appendix R to subpart B.

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(k) *Environmental Protection Agency (EPA)*, ENERGY STAR documents published by the Environmental Protection Agency are available online at <http://www.energystar.gov> or by contacting the Energy Star hotline at 1-888-782-7937.

(1) ENERGY STAR Testing Facility Guidance Manual: Building a Testing Facility and Performing the Solid State Test Method for ENERGY STAR Qualified Ceiling Fans, Version 1.1, approved December 9, 2002, IBR approved for appendix U to subpart B.

(2) ENERGY STAR Program Requirements for Residential Light Fixtures, Version 4.0, approved January 10, 2005, IBR approved for appendix V to subpart B.

(3) ENERGY STAR Program Requirements for Dehumidifiers, approved January 1, 2001, IBR approved for appendix X to subpart B.

(4) Energy Star Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies, Eligibility Criteria (Version 2.0), effective date for EPS Manufacturers November 1, 2008, IBR approved for subpart C, § 430.32.

(5) Test Methodology for Determining the Energy Performance of Battery Charging Systems, approved December 2005, IBR approved for appendix Y to subpart B.

(1) *IESNA*. Illuminating Engineering Society of North America, 120 Wall Street, Floor 17, New York, NY 10005-4001, 212-248-5000, or go to <http://www.iesna.org>.

(1) *The IESNA Lighting Handbook, Reference & Application*, (“The IESNA Lighting Handbook”), 9th ed., Chapter 6, “Light Sources,” July 2000, IBR approved for § 430.2.

(2) IES LM-9-09, (“IES LM-9”), IES Approved Method for the Electrical and Photometric Measurement of Fluorescent Lamps, approved January 31, 2009; IBR approved for § 430.2 and appendix R to subpart B.

(3) IESNA LM-16-1993 (“IESNA LM-16”), IESNA Practical Guide to Colorimetry of Light Sources, December 1993, IBR approved for § 430.2.

(4) IES LM-20-1994, IESNA Approved Method for Photometric Testing of Reflector-Type Lamps, approved Decem-

ber 3, 1994, IBR approved for appendix R to subpart B.

(5) IES LM-45-09, (“IES LM-45”), IES Approved Method for the Electrical and Photometric Measurement of General Service Incandescent Filament Lamps, approved December 14, 2009; IBR approved for appendix R to subpart B.

(6) IESNA LM-49-01 (“IESNA LM-49”), IESNA Approved Method for Life Testing of Incandescent Filament Lamps, approved December 1, 2001, IBR approved for § 430.2 and appendix R to subpart B.

(7) IES LM-58-1994, IESNA Guide to Spectroradiometric Measurements, approved December 3, 1994, IBR approved for appendix R to subpart B.

(m) *IEC*. International Electrotechnical Commission, available from the American National Standards Institute, 25 W. 43rd Street, 4th Floor, New York, NY 10036, (212) 642-4900, or go to <http://webstore.ansi.org>.

(1) International Electrotechnical Commission (IEC) Standard 62301 (“IEC 62301”), *Household electrical appliances—Measurement of standby power* (first edition, June 2005), IBR approved for appendix D1, appendix F, appendix I, and appendix N to subpart B.

(2) IEC Standard 62301 (“IEC 62301”), *Household electrical appliances—Measurement of standby power* (Edition 2.0, 2011-01), IBR approved for appendix C1, appendix I, appendix J2, and appendix X1 to subpart B.

(n) *NSF International*. NSF International, P.O. Box 130140, 789 North Dixboro Road, Ann Arbor, MI 48113-0140, 1-800-673-6275, or go to <http://www.nsf.org>.

(1) NSF/ANSI 51-2007 (“NSF/ANSI 51”), *Food equipment materials*, revised and adopted April 2007, IBR approved for § 430.2.

(2) [Reserved]

(o) *Optical Society of America*. *Optical Society of America*, 2010 Massachusetts Ave., NW., Washington, DC 20036-1012, 202-223-8130, or go to <http://www.opticsinfobase.org>;

(1) “Computation of Correlated Color Temperature and Distribution Temperature,” A.R. Robertson, *Journal of the Optical Society of America*, Volume 58, Number 11, November 1968, pages 1528-1535, IBR approved for § 430.2.

(2) [Reserved]

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(p) U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Resource Room of the Building Technologies Program, 950 L'Enfant Plaza, SW., 6th Floor, Washington, DC 20024, 202-586-2945, or go to <http://www.energystar.gov>.

(1) ENERGY STAR Program Requirements for [Compact Fluorescent Lamps] CFLs, Version 3.0, approved October 30, 2003, IBR approved for appendix V to subpart B.

(2) ENERGY STAR Program Requirements for [Compact Fluorescent Lamps] CFLs, approved August 9, 2001, IBR approved for appendix W to subpart B.

[74 FR 12066, Mar. 23, 2009, as amended at 74 FR 31840, July 6, 2009; 74 FR 34177, July 14, 2009; 74 FR 54455, Oct. 22, 2009; 75 FR 42583, July 22, 2010; 75 FR 64631, Oct. 20, 2010; 75 FR 78848, Dec. 16, 2010; 76 FR 1031, Jan. 6, 2011; 76 FR 12843, Mar. 9, 2011; 76 FR 25223, May 4, 2011; 76 FR 71859, Nov. 18, 2011; 77 FR 4216, Jan. 27, 2012; 77 FR 13936, Mar. 7, 2012; 77 FR 65977, Oct. 31, 2012]

EFFECTIVE DATE NOTES: 1. At 77 FR 74570, Dec. 17, 2012, § 430.3 was amended by revising paragraphs (d)(16) and (m)(2), effective Jan. 16, 2013. For the convenience of the user, the revised text is set forth as follows:

§ 430.3 Materials incorporated by reference.

* * * * *

(d) * * *

(16) ANSI Z21.56-2006, section 2.10 (“ANSI Z21.56”), Standard for Gas-Fired Pool Heaters, approved December 13, 2005, IBR approved for appendix P to subpart B.

(m) * * *

(2) IEC 62301 (“IEC 62301”), *Household electrical appliances—Measurement of standby power*, (Edition 2.0, 2011-01), IBR approved for appendices C1, G, I, J2, O, P, and X1 to subpart B.

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2. At 77 FR 76839, Dec. 31, 2012, § 430.3 was amended by removing, in paragraph (m)(1), the words “appendix I, and appendix N” and adding in its place “and appendix I”; and adding after “J2,” in paragraph (m)(2), “N,” effective Jan. 30, 2013.

§ 430.4 Sources for information and guidance.

(a) *General.* The standards listed in this paragraph are referred to in the DOE test procedures and elsewhere in this part but are not incorporated by

reference. These sources are given here for information and guidance.

(b) *IESNA.* Illuminating Engineering Society of North America, 120 Wall Street, Floor 17, New York, NY 10005-4001, 212-248-5000, or go to <http://www.iesna.org>.

(1) *Illuminating Engineering Society of North America Lighting Handbook*, 8th Edition, 1993.

(2) [Reserved]

(c) *IEEE.* Institute of Electrical and Electronics Engineers, Inc., 3 Park Avenue, 17th Floor, New York, NY, 10016-5997, 212-419-7900, or go to <http://www.ieee.org>.

(1) IEEE 1515-2000, *IEEE Recommended Practice for Electronic Power Subsystems: Parameter Definitions, Test Conditions, and Test Methods*, March 30, 2000.

(2) IEEE 100, *Authoritative Dictionary of IEEE Standards Terms*, 7th Edition, January 1, 2006.

(d) *IEC.* International Electrotechnical Commission, available from the American National Standards Institute, 11 W. 42nd Street, New York, NY 10036, 212-642-4936, or go to <http://www.iec.ch>.

(1) IEC 62301, *Household electrical appliances—Measurement of standby power*, First Edition, June 13, 2005.

(2) IEC 60050, *International Electrotechnical Vocabulary*.

(e) National Voluntary Laboratory Accreditation Program, Standards Services Division, NIST, 100 Bureau Drive, Stop 2140, Gaithersburg, MD 20899-2140, 301-975-4016, or go to <http://ts.nist.gov/standards/accreditation>.

(1) National Voluntary Laboratory Accreditation Program Handbook 150-01, *Energy Efficient Lighting Products, Lamps and Luminaires*, August 1993.

(2) [Reserved]

[74 FR 12066, Mar. 23, 2009]

Subpart B—Test Procedures

§ 430.21 Purpose and scope.

This subpart contains test procedures required to be prescribed by DOE pursuant to section 323 of the Act.